Express5800/320Lb FT Linux System Release Notes

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Express5800/320Lb FT Linux
System Release Notes

The *Express5800/320Lb FT Linux System Release Notes* provide up-to-date information on your system. These notes also provide additional valuable information about your system that was not included in the user's guide at the time of its release.

Please read these notes in their entirety.

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Introduction

These System Release Notes cover the following topics:

- Operating System
- Advisories
- Notices, Limitations, and Restrictions

Operating System

The following general comments apply to this server.

- Versions of the Network Operating Systems tested and recommended are:

  — FT Linux.

- Microsoft Windows® 2000, 2003 Enterprise Edition, and NT© 4.0 are not supported.

Advisories

EXPRESSBUILDER

The following advisory applies to EXPRESSBUILDER.

- The version of EXPRESSBUILDER is specific to the operating system supported. The appropriate EXPRESSBUILDER is shipped for the configured operating system. If an operating system is not configured, use the EXPRESSBUIDER appropriate for your installation.
  - EXPRESSBUILDER 3.010 versions support FT Linux.

Notices, Limitations, and Restrictions

Notices

To achieve the fault tolerant function, the Express5800/320Lb FT Linux uses the software whose functions for kernel and drivers have been improved from the regular Linux OS. The following notices apply to the Express5800/320Lb FT Linux. Please read the list of notices on the following pages carefully to ensure that they are followed.

List of Notices

	Notices
1	**Note on using the RPC port** For security reasons, the factory settings do not allow other machines to access NEC Express5800/320Lb(-R) via the RPC port. With the factory settings, you cannot use applications, such as NFS, that use the PRC port. 1) Configuration at the time of shipment and reinstallation # /sbin/iptables -A INPUT -p tcp --dport 111 -i ! lo -j DROP # /sbin/iptables -A INPUT -p udp --dport 111 -i ! lo -j DROP 2) Configuration File The configuration is stored in the following file. /etc/sysconfig/iptables To use applications such as NFS, you need to permit the access via the RPC port. See the following example and change the settings in /etc/sysconfig/iptables to permit the access [Example for changing the configuration] To permit the access from a particular IP address only (e.g. 192.168.0.10): # /sbin/iptables -I INPUT -p tcp --dport 111 -s 192.168.0.10 -j ACCEPT # /sbin/iptables -I INPUT -p udp --dport 111 -s 192.168.0.10 -j ACCEPT # /sbin/iptables-save > /etc/sysconfig/iptables
2	**Note for reinstallation** Follow the steps described in the User's Guide to perform reinstallation with the backup CD-ROM (shipped with the NEC Express5800/ft series) and configure settings after reinstallation. When you perform reinstallation, make sure to follow the procedures for preparation described in "Linux Setup" of User's Guide (Setup). (Remove optional PCI boards and other peripheral devices. Insert one HDD to the slot 1 of each PCI module. Use the CD-ROM drive in the group 1 of the PCI module for reinstallation. If the power switch lamp of the group 2 is on, follow the steps described in "Linux Setup" of User's Guide (Setup) to turn on a power switch lamp of the group 1.
3	**Note on removing and inserting an internal hard disk** Contact your sales representative to replace an internal hard disk.
4	**Note on replacing a CPU module and/or PCI module** Contact your sales representative to replace a CPU module and/or PCI module.
5	**Note on returning a status with redundant CPU modules** When you restore the redundant status after stopping either of CPU modules due to a system failure or replacement, the system may look stopped approximately for 5 seconds after the completion of the redundancy processing. This does not affect operation of the system. If monitoring from a client machine by a timer is performed for the process of accessing NEC Express5800/320Lb(-R) server, you should make monitoring settings taking this duration of time into account.

6	**Note on accessing files in the /proc and /dev directory** An attempt to access a file in the following directories (by using a command, for example) can cause failover of a CPU module and execution of memory dump process. DO NOT attempt to access files in these directories. /dev/mem /proc/kcore /proc/bus/ /proc/ft/bb/cpu[0,1]/dump
7	**Note on the shutdown command** When you shutdown NEC Express5800/320Lb(-R) server using the shutdown command, the following messages may appear after system's "Power down" is displayed. This does not affect the system operation. FT[1] opstate UNKNOWN to INITIALIZING FT[1] info unable to change led state for CRU FT[1] opstate INITIALIZING to BROKEN DIAGNOSTICS_FAILED
8	**Note on using the ft server utility** When you stop the primary PCI module or execute a dump function with the ft server utility, the screen of the ft server utility may show a console message. This does not affect the utility functions.
9	**Note on updating the BMC firmware** When you update the BMC firmware by using the ft server utility, the LED on each PCI module may turn red after the completion of update. This does not indicate problems. You can see the update results at hist.log located in /usr/bmcfwupd.
10	**Note on using the server switch unit** If the server switch unit is connected to a machine during reinstallation, configure your mouse using the mouseconfig command when the reinstallation is completed, and then startup the console mouse service (gpm).
11	**Note on failure on PCI Module** When a failure occurs on the PCI module and the machine to which it is loaded is automatically separated from the system, the display on the console screen may get disturbed. This does not affect the function of devices.
12	**Note on using Amanda command** To use amanda command of Linux for NEC Express5800/ft series, the version of xinetd for Linux client must be 2.3.4 or later. If you are using xinetd earlier than 2.3.4, you need to update it.
13	**Note on the "I/O error" display on the screen and registered in the log at the OS startup** If a USB floppy disk drive is connected to the machine during OS startup, a following message may appear on the screen and it can be registered in a log. This does not indicate any problems on the system. Partition Check:

	sdg:<6> I/O error: dev **:**, Command ********, sector 0 I/O error : dev **:**, Command ********, sector 0 unable to read partition table

Limitations

The following limitations apply to the Express5800/320Lb FT Linux. Please read the limitations below carefully to ensure that they are followed.

System Hardware

320Lb systems purchased with or previously running the Windows Operating System cannot be loaded with the FT Linux Operating System. The following conditions may occur:

- The system may hang after a PCI Module breaks and is restoring to service.

The root cause is due to insufficient decay of 3.3V during a 1 second power-off cycle during the PCI module bring-up after a failure. This condition has been corrected for new 320Lb systems purchased with the Windows Operating System after mid-November 2004.

> ***Note:*** This limitation does not apply on any systems ordered and preloaded with FT Linux at the factory.

Memory Limit

The FT Linux OS currently have a 3GB (6x512MB) memory upper limit.

Restrictions

The following limitations apply to the Express5800/320Lb FT Linux. Please read the restrictions below carefully to ensure that they are followed.

List of Restrictions

	Restrictions
1	**LAN card that is not connected to the network** If LAN cards connected to the device are not used (i.e. cables are not connected), the ports on those cards are recognized as BROKEN state, turning the status color of data viewer ([FtServer]-[PCIModule]-[Ethernet board]) as well as Operation Window to red (abnormal). Connect those LAN cards together using the LAN cables (cross cable) to avoid this status.
2	**X window** X window server cannot be operated. Use X terminal to operate X window client.